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23 through the rear surface 25 of the sheet 15. The slots 29 are preferably symmetrically located between the side edges 21 and about the centerline of the sheet 15 between the side edges 21. The length of the slots 29 from the base panel 27 is a limited distance from the base panel 27 to the top edge 17 and most usually a minor portion of such distance. The distance between the slots 29 is preferably a major portion, usually about sixty percent of the width of the sheet 15 and within the range of fifty percent to seventy percent of the distance between the two side edges 21. The distance between the slots 29, which are substantially parallel to one another, is important to provide stability. The relationship between the length of the slots 29, to the length of the side edges 21 of the sheet 15, will depend on the type of display device intended and the size of the display section 11 desired.

The bottom edge 19 of the sheet 15 and a lower edge 31 of the base panel 27 are the same. The base panel 27 also has an upper edge 33. Directly above the base panel 27, between the slots 29 is a lower panel 35 and the lower panel 35 has an upper edge 36 and a lower edge 37 which is connected to the base panel 27. On both sides of the lower panel 35 are a pair of rear panels 39. Each rear panel 39 has a lower edge 41 at a hinge 43 to the base panel 27. The hinges 43 at the lower edge 41 of the rear panels 39 and a hinge 45 between lower panel 35 and the base panel 27 are aligned with one another. The term "hinge" as used herein means a crease or bend or score in the sheet 15 which permits ready bending.

Between the slots 29, and directly above the lower panel 35, is an upper panel 47. The upper panel 47 has an upper edge 48 and a lower edge 49. The lower edge 49 is located along a hinge 50 between the upper panel 47 and the upper edge 36 of the lower panel 35. The upper edge 48 of the upper panel 47 is located along a hinge 52 between the upper panel 47 and the display section 11. The hinge 52 is preferably formed by a limited crease to assure resilience. The limitation on the crease for hinge 52 may even be no crease at all so as to preserve resilience. The length of the upper panel 47 and the length of the lower panel 35 along the slots 29 is the same and to assure the locking forces necessary to hold the display device in its fully folded position. This measurement for the length of the upper panel 47 and the length of the lower panel 35 is critical to assure the locking hereinafter described. On both sides of the upper panel 47 are a pair of front panels 53. The front panels 53 have a lower edge 54 where there is a hinge 55 at the rear panels 39. The rear panels 39 and the front panels 53 have a width extending from their respective slot 29 to their respective side edge 21. The hinges 55 between the front panels 53 and the rear panels 39 are aligned with the hinge 50 between the lower panel 35 and the upper panel 47.

Once the various hinges 43, 45, 50, 52, 55 are formed and the slots 29 placed as described, the display device can be quickly placed in its operational or fully-folded position as shown in FIG. 1 from the flat position shown in FIG. 2.

In FIG. 3, the rear surface 25 of the sheet 15 is seen, and the display device is seen in an intermediate position between the flat position and the fully operational position. This intermediate position is achieved by moving the upper panel 47 outwardly from the rear surface 25 of the sheet 15. As a result, the display section 11 is vertically oriented and both rear panels 39 generally are at right angles to the display section 11. The upper panel 47 is also generally at right angles to the display section 11 and parallel with the two rear panels 39. The lower panel 35 is also most likely vertically oriented and is generally parallel to the display section 11 and the base panel 27 remains attached to the lower panel 35 and to the rear panels 39.

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By placing the hinge 45 between the lower panel 35 and the base panel 27 against the hinge 52 between the upper panel 47 and the display section 11, the front surface 23 of the lower panel 35 is placed against the front surface 23 of the upper panel 47 forming, as best seen in FIG. 4, a rear leg or support 57. Simultaneously, the rear surfaces 25 of the rear panels 39 are placed against the rear surfaces 25 of the front panels 53 forming two front legs or supports 59. The base panel 27 is placed against the rear surface 25 of the lower panel 35 and serves as a stabilizer for the rear leg 57.

The length of the lower panel 35 and the upper panel 47 being substantially the same, places the rear leg or support 57 in tension and the resilience of the hinge 52 between the upper panel 47 and the display section 11 acting against the base panel 27, holds the front legs 59 and the rear legs 57 apart to a desired and an appropriate degree.

The display device is placed on the front legs 59 and the rear leg 57. The display section 11 is thus supported by the support section 13 and as seen in FIG. 1 and FIG. 4, the display section 11 is slightly inclined over the rear leg 57.

To return the display device to its flat unfolded position as seen in FIG. 2, the base panel 27 is pulled out removing the hinge 45 between the lower panel 35 and the base panel 27 from the hinge 52 between the upper panel 47 and the display section 11 which results in the intermediate position shown in FIG. 3 and then the hinge 50 between the upper panel 47 and the lower panel 35 is placed in alignment with the hinges 55 between the rear panels 39 and the front panels 53.

Thus, while a preferred embodiment of the invention has been shown and described, it will be apparent to those skilled in the art that many other changes and modifications may be made without departing from the invention in its broader aspects. The appended claims are therefore intended to cover all such changes and modifications as fall within the true spirit and scope of the invention.

I claim:

1. A display device which has a storage position as a flat sheet and an operative position when folded, such display device comprising:

a flat sheet having a display section and a support section, the support section in the storage position including:

a base panel with two slots extending from the base panel to the display section;

an upper panel and a lower panel located between the two slots, a hinge being located between the upper panel and the lower panel and a hinge being located between the upper panel and the display section and a hinge being located between the lower panel and the base panel;

a pair of rear panels located adjacent the lower panel, a hinge being located between the rear panels and the base panel; and

a pair of front panels located adjacent the upper panel, a pair of hinges between the front panels and the rear panels, the hinges between the front panels and the rear panels being aligned with the hinge between the upper panel and the lower panel, the hinges between the rear panels and the base panel being aligned with the hinge between the lower panel and the base panel.

2. A display device according to claim 1 wherein the support section in the operative position includes the following:

the hinge between the base panel and the lower panel being beneath and adjacent the hinge between the upper panel and the display section to form a rear leg;

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the rear panels being against the front panels forming a pair of front legs; and
the base panel being against the rear leg to support the rear leg.

3. A display device which has a storage position as a flat sheet and an operative position when folded, such display device comprising:

a flat sheet having a top edge and a bottom edge and two side edges, the sheet having a display section adjacent the top edge and a support section adjacent the bottom edge, the support section in the storage position including:

a base panel along the bottom edge and having two slots extending from the base panel to the display section;

an upper panel and a lower panel located between the two slots, a hinge between the upper panel and the display section and a hinge between the lower panel and the base panel;

a pair of rear panels located between the two side edges and the slots adjacent the lower panel, a hinge being located between the rear panels and the base panel; and

a pair of front panels located between the two side edges and the slots adjacent the upper panel, a pair of hinges between the front panels and the rear panels, the hinges between the front panels and the rear panels being aligned with a hinge between the upper panel and the lower panel, the hinge between the rear panels and the base panel being aligned with the hinge between the lower panel and the base panel.

4. A display panel according to claim 3 wherein the two slots are located generally parallel to the side edges.

5. A display panel according to claim 3 wherein the two slots are generally parallel and the distance between the two slots is in the range of fifty percent to seventy percent of the distance between the two side edges.

6. A display device which has a storage position as a flat sheet and an operative position when folded, such display device comprising:

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a flat sheet having a top edge and a bottom edge and two side edges, the sheet having a display section adjacent the top edge and a support section adjacent the bottom edge, the support section in the storage position including:

a base panel along the bottom edge and having two slots extending from the base panel to the display section;

an upper panel and a lower panel located between the two slots, a hinge between the upper panel and the display section and a hinge between the lower panel and the base panel and a hinge between the upper panel and the lower panel;

a pair of rear panels located between the two side edges and the slots adjacent the lower panel, a hinge being located between the rear panels and the base panel; and

a pair of front panels located between the two side edges and the slots adjacent the upper panel, a pair of hinges between the front panels and the rear panels, the hinge between the front panels and the rear panels being aligned with the hinge between the upper panel and the lower panel, the hinges between the rear panels and the base panel being aligned with the hinge between the lower panel and the base panel; and

the support section in the operative position having:

the hinge between the base panel and the lower panel being beneath and adjacent the hinge between the upper panel and the display section to form a rear leg;

the rear panels being against the front panels forming a pair of front legs; and

the base panel being against the rear leg to support the rear leg.

7. A display panel according to claim 6 wherein the two slots are located generally parallel to the side edges.

8. A display panel according to claim 6 wherein the two slots are generally parallel and the distance between the two slots is in the range of fifty percent to seventy percent of the distance between the two side edges.

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